

Solaris-Shield™

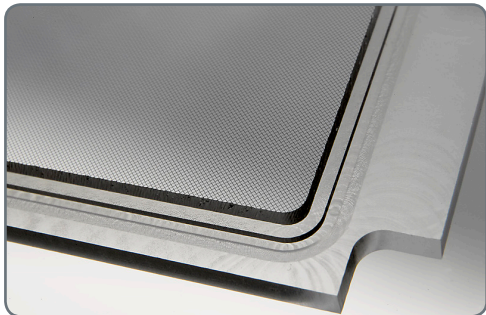
Thin and lightweight EMI-shielding display windows with excellent shielding performance

The Solution

Solaris-Shield™ is a complete range of acrylic optical filters with cast-in metal mesh for the attenuation of electromagnetic fields. The mesh is either copper or stainless steel. To make sure that optimal EMI-shielding is achieved, an electrical contact is applied between the entire perimeter of the mesh and the housing of the application. The contact is either conductive silver or nickel paint combined with conducting gaskets or glue. Optical interference (Moiré) is avoided by rotating the embedded mesh into a certain angle relative to the display.

Typical Applications

Solaris-Shield™ windows are typically



used in applications such as battle-field tactics systems, communication systems or secure laptop computers within the military or aviation industry. Sensitive medical equipment, test and measurement systems and information displays at airports, railway or bus terminals are other typical application areas.

Customisation

As standard, the material is clear but tinted Solaris-Shield™ is also available. Solaris-Shield™ can be machined to virtually any required product geometry and specification. Silkscreen printing and surface treatments are available upon request. With Solaris-Shield™, you get full design freedom.



Technical Data

Light transmittance	Approx. 78%*
Thickness	1.5, 2, 2.5, 3, & 4 mm
Mesh types	Bright or blackened copper or steel
Mesh orientation	0° - 45°
Busbars	Flexible, conductive silver or nickel
Std. Operation temperatures	-40 °C to +70 °C
Dimensions	Up to 1500 x 1000 mm

*compared to transparent acrylic